

N5441A-01

Information Only Service Note

Supersedes:
NONE

N5441A InfiniiMax III Solder-in probe head

Serial Numbers: ALL

The Problem – The N5441A probe head has been discontinued by our Contract Manufacture. The support parts were not able to be purchased as there was no Life time Buy opportunity

Parts Required:

P/N	Description	Qty.
N2836A-FG	InfiniiMax III 26 GHz Solder-in Probe Head	1

ADMINISTRATIVE INFORMATION

<input type="checkbox"/> Calibration Required	PRODUCT LINE: PL1A
<input checked="" type="checkbox"/> XCalibration NOT Required Calibration NOT Required	AUTHOR: MRR

ADDITIONAL INFORMATION:

Solution/Action: Use part N2836A-FG to support SLSC support parts to N5441A EOS.

Comparison details for the customer, if needed.

N2836A InfiniiMax III 26 GHz Solder-in Head

Key Features & Specifications

- 26 GHz bandwidth (with InfiniiMax III N2803A amp)
- Cdiff = 108 fF, Cse = 140 fF
- 100k Ω input Rdiff (@ DC), 1k Ω input Rdiff (@ >10kHz)
- 6:1 attenuation ratio, normal sensitivity
- Variable spacing from 5 mil – 250 mil (or 0.127 mm – 6.35 mm)

N5441A InfiniiMax III Solder-in probe head

Key Features & Specifications

Bandwidth:

- 16 GHz (typical)
- Tr = 34.8 psec (10%-90%, probe only with N2803A)

Input Impedance

- C diff = 85 fF, C se = 125 fF
- DC R diff = 100 k Ω , R se = 50 k Ω
- Input R >10 kHz : R diff = 1 k Ω , R se = 500 Ω

Input Voltage Range

- 1.6 Vpp. \pm 0.8 V (HD2&3, <-38dB), 2.5 Vpp, \pm 1.25 V (HD2&3 <-34dB) (with N5440A 450 Ω ZIF tip)*
- 0.8 Vpp. \pm 0.4 V (HD2&3, <-38dB), 1.6 Vpp, \pm 0.8 V (HD2&3 <-34dB) (with N5447A 200 Ω ZIF tip)*

Revision History:

Date	Service Note Revision	Author	Reason for Change
Oct 5 th , 2016	1	Mark Rowley	As Published